



The logo for FIVE ESTUARIES features the word "FIVE" in a sans-serif font. The letter "V" is stylized with a purple-to-pink gradient. To the right of "FIVE" are three wavy lines representing water, colored blue, green, and yellow from top to bottom. Below this is the word "ESTUARIES" in a larger, grey sans-serif font, followed by "OFFSHORE WIND FARM" in a smaller, grey sans-serif font.

FIVE  
ESTUARIES  
OFFSHORE WIND FARM

FIVE ESTUARIES  
OFFSHORE WIND FARM  
ENVIRONMENTAL STATEMENT

VOLUME 6, PART 5, ANNEX 4.5: SEABIRD  
DENSITIES BY SURVEY

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A	Mar-24	ES	MacArthur Green	GoBe	VE OWFL



MacArthur  
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# Five Estuaries Offshore Windfarm

## Ornithology Technical Annex 4.5 Seabird densities by survey

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## 1 INTRODUCTION

This annex provides tables of seabird density in each survey for each species recorded during the Five Estuaries Offshore Windfarm (VE) baseline surveys (March 2019 – February 2021).

The densities were estimated using design-based methods and are summarised as central estimate (i.e. extrapolated from the number seen in the surveyed area to the whole area) and 95% confidence range, derived from 1,000 nonparametric bootstrap samples.

Table 1. Five Estuaries North. Density of Black-headed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.81
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0.13 (0.07)	0-0.26	0.53	0.17 (0.07)	0.05-0.3	0.41
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.71
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 2. Five Estuaries North. Density of Common gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.81
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.68
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.84	0.02 (0.02)	0-0.07	0.85
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0.1 (0.08)	0-0.3	0.83	0.04 (0.03)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.84
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0.1 (0.08)	0-0.3	0.82	0.04 (0.04)	0-0.13	0.84	0.02 (0.02)	0-0.07	0.84
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0.04 (0.03)	0-0.09	0.78	0.05 (0.02)	0-0.1	0.50

Table 3. Five Estuaries North. Density of Common tern recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0.11 (0.08)	0-0.21	0.78	0.04 (0.04)	0-0.13	0.78	0.03 (0.02)	0-0.08	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 4. Five Estuaries North. Density of Fulmar recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0.32 (0.18)	0-0.74	0.57	0.18 (0.09)	0.04-0.36	0.48	0.16 (0.05)	0.05-0.26	0.31
Apr-2019	0.1 (0.09)	0-0.31	0.83	0.04 (0.04)	0-0.13	0.78	0.05 (0.03)	0-0.1	0.59
May-2019	0.32 (0.13)	0.11-0.53	0.42	0.23 (0.09)	0.09-0.41	0.40	0.18 (0.06)	0.05-0.31	0.35
Jun-2019	0.21 (0.18)	0-0.64	0.84	0.09 (0.07)	0-0.27	0.81	0.08 (0.05)	0-0.16	0.58
Jul-2019	0.63 (0.49)	0-1.68	0.77	0.27 (0.2)	0-0.72	0.75	0.16 (0.11)	0-0.41	0.74
Aug-2019	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.1	0.50
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.82
Oct-2019	0 (0)	0-0		0.04 (0.03)	0-0.09	0.73	0.03 (0.02)	0-0.05	0.72
Nov-2019	0 (0)	0-0		0.04 (0.04)	0-0.13	0.80	0.03 (0.02)	0-0.08	0.81
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0.1 (0.09)	0-0.31	0.83	0.04 (0.04)	0-0.13	0.80	0.08 (0.03)	0.03-0.15	0.43
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0.04 (0.03)	0-0.09	0.78	0.05 (0.03)	0-0.1	0.55
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.64
Jun-2020	0.1 (0.08)	0-0.3	0.83	0.04 (0.04)	0-0.13	0.83	0.05 (0.02)	0-0.07	0.43
Jul-2020	0 (0)	0-0		0.04 (0.03)	0-0.13	0.80	0.05 (0.02)	0-0.07	0.40
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.63
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.65
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 5. Five Estuaries North. Density of Gannet recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0.53 (0.34)	0-1.26	0.64	0.36 (0.16)	0.09-0.67	0.44	0.39 (0.11)	0.18-0.62	0.30
Apr-2019	0.1 (0.08)	0-0.31	0.81	0.4 (0.14)	0.13-0.67	0.36	0.36 (0.11)	0.16-0.54	0.30
May-2019	0 (0)	0-0		0.09 (0.05)	0-0.18	0.56	0.05 (0.03)	0-0.1	0.54
Jun-2019	0.32 (0.15)	0.1-0.64	0.48	0.14 (0.06)	0-0.27	0.47	0.13 (0.04)	0.05-0.21	0.30
Jul-2019	0.42 (0.3)	0-1.05	0.71	0.18 (0.13)	0-0.45	0.70	0.13 (0.08)	0-0.31	0.58
Aug-2019	1.37 (0.62)	0.21-2.64	0.45	1.35 (0.42)	0.63-2.21	0.31	1.3 (0.24)	0.83-1.77	0.19
Sep-2019	0 (0)	0-0		0.27 (0.14)	0.04-0.58	0.53	0.18 (0.08)	0.03-0.34	0.47
Oct-2019	0.53 (0.29)	0-1.16	0.56	0.31 (0.14)	0.09-0.63	0.45	0.26 (0.08)	0.13-0.41	0.30
Nov-2019	3.05 (1.48)	0.63-6.1	0.48	2.92 (0.8)	1.48-4.59	0.27	2.67 (0.42)	1.82-3.48	0.16
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.83	0.05 (0.04)	0-0.12	0.76
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.71
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.83	0.1 (0.03)	0.05-0.15	0.32
Jul-2020	0.71 (0.37)	0.1-1.42	0.53	0.3 (0.16)	0.04-0.65	0.53	0.2 (0.09)	0.05-0.37	0.45
Aug-2020	0.1 (0.08)	0-0.3	0.82	0.09 (0.05)	0-0.17	0.55	0.07 (0.04)	0-0.15	0.55

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.3 (0.17)	0-0.7	0.57	0.26 (0.1)	0.09-0.43	0.37	0.2 (0.07)	0.07-0.35	0.36
Oct-2020	0.1 (0.08)	0-0.3	0.82	0.26 (0.1)	0.09-0.47	0.38	0.3 (0.07)	0.15-0.45	0.24
Nov-2020	1.21 (0.59)	0.1-2.32	0.49	2.11 (0.55)	1.08-3.14	0.26	1.57 (0.28)	1.07-2.14	0.18
Dec-2020	0.6 (0.43)	0-1.61	0.72	0.34 (0.23)	0-0.82	0.66	0.22 (0.13)	0.02-0.5	0.58
Jan-2021	0 (0)	0-0		0.04 (0.04)	0-0.13	0.84	0.02 (0.02)	0-0.07	0.81
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.1	0.53

Table 6. Five Estuaries North. Density of Great black-backed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0.11 (0.09)	0-0.32	0.83	0.04 (0.04)	0-0.13	0.81	0.03 (0.02)	0-0.08	0.80
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0.05 (0.03)	0-0.09	0.60	0.03 (0.02)	0-0.05	0.60
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.11 (0.08)	0-0.32	0.80	0.04 (0.03)	0-0.13	0.77	0.05 (0.03)	0-0.1	0.57
Nov-2019	0 (0)	0-0		0.09 (0.04)	0-0.18	0.50	0.16 (0.05)	0.08-0.26	0.31
Dec-2019	0.2 (0.16)	0-0.61	0.81	0.13 (0.1)	0-0.35	0.76	0.1 (0.06)	0-0.22	0.64
Jan-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.80	0.05 (0.03)	0-0.1	0.59
Feb-2020	0 (0)	0-0		0.04 (0.03)	0-0.09	0.77	0.02 (0.02)	0-0.05	0.77
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.22 (0.13)	0-0.45	0.57
Nov-2020	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.1	0.54
Dec-2020	0.3 (0.17)	0-0.6	0.57	0.34 (0.12)	0.13-0.56	0.35	0.82 (0.35)	0.25-1.61	0.43
Jan-2021	0.1 (0.08)	0-0.3	0.82	0.04 (0.04)	0-0.13	0.81	0.05 (0.03)	0-0.1	0.54
Feb-2021	0 (0)	0-0		0.04 (0.04)	0-0.13	0.82	0.02 (0.02)	0-0.07	0.81

Table 7. Five Estuaries North. Density of Guillemot recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	5.25 (1.83)	1.79-8.83	0.35	5.03 (0.91)	3.32-6.91	0.18	5.7 (0.68)	4.4-7.07	0.12
Apr-2019	2.83 (1.2)	0.63-5.14	0.42	2.82 (0.5)	1.88-3.81	0.18	3.52 (0.43)	2.72-4.37	0.12
May-2019	0 (0)	0-0		0.14 (0.08)	0-0.32	0.60	0.13 (0.05)	0.05-0.23	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0.21 (0.17)	0-0.63	0.82	0.36 (0.12)	0.09-0.54	0.34	0.26 (0.07)	0.13-0.41	0.29
Aug-2019	0 (0)	0-0		0.5 (0.22)	0.09-0.95	0.45	0.29 (0.13)	0.05-0.57	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.75
Oct-2019	0.11 (0.09)	0-0.32	0.83	0.13 (0.06)	0-0.27	0.46	0.28 (0.06)	0.18-0.39	0.20
Nov-2019	2.1 (0.81)	0.63-3.79	0.39	1.89 (0.44)	1.03-2.74	0.23	1.97 (0.22)	1.56-2.41	0.11
Dec-2019	1.21 (0.48)	0.3-2.23	0.40	1.69 (0.45)	0.82-2.55	0.27	1.42 (0.28)	0.9-1.97	0.20
Jan-2020	1.66 (0.54)	0.62-2.7	0.32	1.73 (0.37)	1.02-2.49	0.21	1.82 (0.24)	1.36-2.28	0.13
Feb-2020	5.32 (2.74)	0.7-10.75	0.51	5.92 (1.35)	3.13-8.41	0.23	6.69 (1.03)	4.65-8.67	0.15
Mar-2020	1.81 (0.83)	0.3-3.52	0.46	2.19 (0.37)	1.42-2.93	0.17	2.09 (0.29)	1.54-2.63	0.14
Apr-2020	0.6 (0.29)	0.1-1.2	0.48	0.43 (0.13)	0.17-0.69	0.30	0.72 (0.15)	0.45-1.04	0.21
May-2020	0.31 (0.25)	0-0.92	0.81	0.35 (0.17)	0.04-0.7	0.50	0.33 (0.11)	0.13-0.55	0.33
Jun-2020	0 (0)	0-0		0.13 (0.08)	0-0.3	0.59	0.07 (0.04)	0-0.17	0.58
Jul-2020	0.1 (0.08)	0-0.3	0.82	0.13 (0.06)	0-0.26	0.49	0.1 (0.04)	0.02-0.17	0.42
Aug-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	1.71 (0.84)	0.2-3.42	0.49	1.16 (0.35)	0.52-1.85	0.30	0.94 (0.18)	0.62-1.29	0.19
Oct-2020	0 (0)	0-0		0.39 (0.24)	0-0.9	0.63	0.27 (0.14)	0.05-0.6	0.52
Nov-2020	0.4 (0.18)	0-0.71	0.45	0.43 (0.12)	0.22-0.65	0.27	0.42 (0.1)	0.25-0.6	0.23
Dec-2020	2.72 (1.24)	0.5-5.24	0.46	2.93 (0.6)	1.72-4.05	0.21	2.83 (0.26)	2.38-3.38	0.09
Jan-2021	1.21 (0.55)	0.2-2.32	0.45	1.08 (0.29)	0.52-1.64	0.27	1.12 (0.18)	0.77-1.52	0.16
Feb-2021	1.01 (0.51)	0.1-2.01	0.51	1.07 (0.29)	0.56-1.63	0.27	1.22 (0.24)	0.77-1.69	0.19

Table 8. Five Estuaries North. Density of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	5.46 (1.9)	1.86-9.18	0.35	5.21 (0.94)	3.44-7.16	0.18	5.88 (0.7)	4.54-7.3	0.12
Apr-2019	3.15 (1.34)	0.7-5.71	0.42	3.27 (0.58)	2.18-4.42	0.18	3.83 (0.47)	2.96-4.76	0.12
May-2019	0 (0)	0-0		0.14 (0.08)	0-0.32	0.60	0.16 (0.06)	0.06-0.28	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0.21 (0.17)	0-0.63	0.82	0.36 (0.12)	0.09-0.54	0.34	0.26 (0.07)	0.13-0.41	0.29
Aug-2019	0 (0)	0-0		0.54 (0.24)	0.1-1.03	0.45	0.31 (0.15)	0.06-0.62	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.05 (0.04)	0-0.1	0.75
Oct-2019	0.11 (0.09)	0-0.32	0.83	0.18 (0.08)	0-0.36	0.46	0.34 (0.07)	0.21-0.46	0.20
Nov-2019	2.31 (0.9)	0.69-4.17	0.39	2.16 (0.5)	1.18-3.13	0.23	2.18 (0.24)	1.72-2.67	0.11
Dec-2019	1.32 (0.52)	0.33-2.41	0.40	1.86 (0.5)	0.91-2.81	0.27	1.57 (0.31)	0.99-2.18	0.20
Jan-2020	2.29 (0.74)	0.86-3.72	0.32	2 (0.43)	1.18-2.87	0.21	2.13 (0.28)	1.59-2.67	0.13
Feb-2020	6.03 (3.1)	0.8-12.16	0.51	6.65 (1.52)	3.52-9.45	0.23	7.23 (1.11)	5.03-9.37	0.15
Mar-2020	2.01 (0.92)	0.34-3.92	0.46	2.37 (0.4)	1.53-3.16	0.17	2.23 (0.31)	1.65-2.82	0.14
Apr-2020	0.6 (0.29)	0.1-1.2	0.48	0.43 (0.13)	0.17-0.69	0.30	0.72 (0.15)	0.45-1.04	0.21
May-2020	0.41 (0.33)	0-1.22	0.81	0.39 (0.2)	0.05-0.79	0.50	0.43 (0.14)	0.16-0.72	0.33
Jun-2020	0 (0)	0-0		0.13 (0.08)	0-0.3	0.59	0.07 (0.04)	0-0.17	0.58
Jul-2020	0.1 (0.08)	0-0.3	0.82	0.13 (0.06)	0-0.26	0.49	0.1 (0.04)	0.02-0.17	0.42
Aug-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	1.71 (0.84)	0.2-3.42	0.49	1.16 (0.35)	0.52-1.85	0.30	0.97 (0.18)	0.64-1.32	0.19
Oct-2020	0 (0)	0-0		0.39 (0.24)	0-0.9	0.63	0.27 (0.14)	0.05-0.6	0.52
Nov-2020	0.4 (0.18)	0-0.71	0.45	0.52 (0.14)	0.26-0.78	0.27	0.57 (0.13)	0.34-0.81	0.23
Dec-2020	3.93 (1.79)	0.73-7.57	0.46	3.75 (0.77)	2.2-5.18	0.21	3.45 (0.31)	2.91-4.12	0.09
Jan-2021	1.21 (0.55)	0.2-2.32	0.45	1.25 (0.34)	0.6-1.9	0.27	1.24 (0.2)	0.86-1.69	0.16
Feb-2021	1.11 (0.57)	0.11-2.21	0.51	1.25 (0.33)	0.65-1.89	0.27	1.51 (0.29)	0.96-2.1	0.19

Table 9. Five Estuaries North. Density of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	7.14 (2.49)	2.43-12.01	0.35	6.82 (1.23)	4.51-9.38	0.18	7.69 (0.92)	5.94-9.55	0.12
Apr-2019	4.09 (1.74)	0.91-7.42	0.42	4.3 (0.77)	2.87-5.81	0.18	5.02 (0.62)	3.87-6.24	0.12
May-2019	0 (0)	0-0		0.18 (0.11)	0-0.42	0.60	0.21 (0.08)	0.08-0.37	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0.31 (0.26)	0-0.94	0.82	0.45 (0.15)	0.11-0.67	0.34	0.34 (0.1)	0.17-0.54	0.29
Aug-2019	0 (0)	0-0		0.72 (0.32)	0.13-1.38	0.45	0.42 (0.19)	0.08-0.83	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.08 (0.06)	0-0.16	0.75
Oct-2019	0.11 (0.09)	0-0.32	0.83	0.22 (0.1)	0-0.45	0.46	0.44 (0.09)	0.28-0.6	0.20
Nov-2019	3.05 (1.18)	0.92-5.49	0.39	2.83 (0.66)	1.55-4.11	0.23	2.85 (0.31)	2.25-3.49	0.11
Dec-2019	1.72 (0.68)	0.43-3.15	0.40	2.42 (0.65)	1.18-3.66	0.27	2.05 (0.4)	1.29-2.83	0.20
Jan-2020	2.91 (0.94)	1.09-4.73	0.32	2.53 (0.54)	1.49-3.64	0.21	2.67 (0.35)	1.99-3.34	0.13
Feb-2020	7.93 (4.08)	1.05-16.02	0.51	8.71 (1.98)	4.61-12.37	0.23	9.48 (1.45)	6.6-12.29	0.15
Mar-2020	2.62 (1.2)	0.44-5.09	0.46	3.1 (0.52)	2-4.13	0.17	2.93 (0.4)	2.16-3.7	0.14
Apr-2020	0.8 (0.39)	0.13-1.61	0.48	0.56 (0.17)	0.22-0.89	0.30	0.94 (0.2)	0.58-1.36	0.21
May-2020	0.51 (0.41)	0-1.53	0.81	0.52 (0.26)	0.07-1.05	0.50	0.55 (0.18)	0.21-0.94	0.33
Jun-2020	0 (0)	0-0		0.17 (0.1)	0-0.4	0.59	0.1 (0.06)	0-0.23	0.58
Jul-2020	0.1 (0.08)	0-0.3	0.82	0.17 (0.08)	0-0.35	0.49	0.12 (0.05)	0.03-0.22	0.42
Aug-2020	0 (0)	0-0		0.04 (0.04)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	2.21 (1.09)	0.26-4.42	0.49	1.5 (0.46)	0.67-2.4	0.30	1.26 (0.24)	0.83-1.73	0.19
Oct-2020	0 (0)	0-0		0.52 (0.33)	0-1.21	0.63	0.35 (0.18)	0.06-0.76	0.52
Nov-2020	0.5 (0.23)	0-0.88	0.45	0.69 (0.19)	0.34-1.03	0.27	0.75 (0.17)	0.44-1.05	0.23
Dec-2020	5.14 (2.34)	0.95-9.9	0.46	4.91 (1.01)	2.89-6.79	0.21	4.5 (0.41)	3.79-5.36	0.09
Jan-2021	1.51 (0.68)	0.25-2.9	0.45	1.6 (0.43)	0.77-2.43	0.27	1.59 (0.26)	1.1-2.16	0.16
Feb-2021	1.41 (0.72)	0.14-2.82	0.51	1.59 (0.43)	0.83-2.42	0.27	1.93 (0.37)	1.22-2.68	0.19

Table 10. Five Estuaries North. Density of Herring gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	1.05 (0.76)	0-2.52	0.73	0.45 (0.33)	0-1.17	0.74	0.26 (0.19)	0-0.67	0.75
Aug-2019	0 (0)	0-0		0.05 (0.04)	0-0.14	0.83	0.03 (0.02)	0-0.08	0.83
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.1	0.51
Dec-2019	0 (0)	0-0		0.04 (0.04)	0-0.13	0.82	0.02 (0.02)	0-0.07	0.82
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0.1 (0.08)	0-0.3	0.83	0.04 (0.04)	0-0.13	0.82	0.02 (0.02)	0-0.07	0.82
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.1 (0.08)	0-0.3	0.82	0.04 (0.03)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.82
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.73
Nov-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.07	0.80
Dec-2020	0.2 (0.15)	0-0.5	0.72	0.13 (0.07)	0-0.26	0.53	0.22 (0.06)	0.1-0.32	0.26
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 11. Five Estuaries North. Density of Kittiwake recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.15 (1.36)	0.84-5.88	0.43	2.47 (0.69)	1.21-3.82	0.28	2.75 (0.47)	1.86-3.68	0.17
Apr-2019	1.36 (0.68)	0.21-2.83	0.50	2.2 (0.39)	1.48-3	0.18	1.66 (0.26)	1.14-2.17	0.16
May-2019	0.63 (0.5)	0-1.9	0.80	0.45 (0.2)	0.14-0.9	0.45	0.6 (0.23)	0.21-1.07	0.39
Jun-2019	0.64 (0.28)	0.21-1.28	0.44	0.95 (0.41)	0.32-1.91	0.43	0.63 (0.23)	0.24-1.1	0.37
Jul-2019	0.1 (0.09)	0-0.31	0.83	0.04 (0.04)	0-0.13	0.80	0.16 (0.04)	0.08-0.26	0.29
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0.32 (0.19)	0-0.74	0.60	0.63 (0.24)	0.18-1.12	0.38	0.73 (0.26)	0.23-1.22	0.35
Oct-2019	0.11 (0.09)	0-0.32	0.81	0.09 (0.05)	0-0.18	0.55	0.08 (0.04)	0.03-0.16	0.46
Nov-2019	0.53 (0.27)	0-1.05	0.51	0.4 (0.14)	0.13-0.67	0.34	0.39 (0.08)	0.23-0.54	0.20
Dec-2019	0.61 (0.28)	0.1-1.11	0.46	0.48 (0.14)	0.22-0.73	0.28	0.52 (0.1)	0.32-0.72	0.19
Jan-2020	0.21 (0.12)	0-0.42	0.58	0.22 (0.07)	0.09-0.36	0.32	0.26 (0.06)	0.13-0.38	0.25
Feb-2020	1.1 (0.65)	0-2.41	0.58	1.29 (0.52)	0.3-2.32	0.41	0.92 (0.3)	0.37-1.54	0.33
Mar-2020	0 (0)	0-0		0.3 (0.12)	0.09-0.52	0.39	0.35 (0.1)	0.15-0.55	0.28
Apr-2020	0 (0)	0-0		0.09 (0.05)	0-0.17	0.53	0.1 (0.03)	0.05-0.17	0.32
May-2020	0 (0)	0-0		0.22 (0.09)	0.04-0.39	0.42	0.25 (0.08)	0.1-0.4	0.32
Jun-2020	0.2 (0.17)	0-0.61	0.85	0.09 (0.07)	0-0.26	0.82	0.25 (0.1)	0.07-0.47	0.41
Jul-2020	0.81 (0.56)	0-2.12	0.69	0.43 (0.23)	0.09-0.91	0.53	0.37 (0.15)	0.12-0.7	0.40
Aug-2020	0.2 (0.17)	0-0.61	0.83	0.22 (0.1)	0.04-0.43	0.48	0.35 (0.09)	0.17-0.55	0.27

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.2 (0.17)	0-0.6	0.83	0.09 (0.07)	0-0.26	0.80	0.1 (0.05)	0.02-0.2	0.51
Oct-2020	0 (0)	0-0		0.13 (0.08)	0-0.3	0.62	0.15 (0.05)	0.05-0.25	0.35
Nov-2020	0.4 (0.23)	0-0.91	0.58	0.65 (0.18)	0.3-0.99	0.28	0.52 (0.12)	0.3-0.77	0.23
Dec-2020	0.3 (0.19)	0-0.71	0.62	0.56 (0.16)	0.26-0.86	0.28	0.65 (0.13)	0.42-0.89	0.20
Jan-2021	0.3 (0.18)	0-0.71	0.60	0.3 (0.11)	0.09-0.52	0.36	0.27 (0.07)	0.15-0.4	0.26
Feb-2021	0.1 (0.09)	0-0.3	0.86	0.17 (0.08)	0.04-0.34	0.48	0.22 (0.06)	0.12-0.35	0.25

Table 12. Five Estuaries North. Density of Lesser black-backed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.01)	0-0.05	0.51
Apr-2019	0 (0)	0-0		0 (0)	0-0		0.05 (0.02)	0-0.1	0.45
May-2019	0 (0)	0-0		0.09 (0.07)	0-0.27	0.82	0.05 (0.04)	0-0.16	0.82
Jun-2019	0.32 (0.22)	0-0.74	0.69	0.27 (0.13)	0.05-0.5	0.48	0.21 (0.08)	0.08-0.39	0.39
Jul-2019	14.27 (10.62)	0-38.62	0.74	6.1 (4.65)	0-16.73	0.76	3.75 (2.71)	0.1-9.89	0.72
Aug-2019	0 (0)	0-0		0.09 (0.06)	0-0.18	0.65	0.05 (0.04)	0-0.1	0.67
Sep-2019	0.21 (0.11)	0-0.42	0.53	0.13 (0.05)	0.04-0.22	0.39	0.1 (0.04)	0.03-0.18	0.34
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0.04 (0.03)	0-0.09	0.75	0.08 (0.05)	0-0.18	0.60
Dec-2019	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.07	0.82
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.07	0.83
May-2020	0 (0)	0-0		0.13 (0.07)	0-0.31	0.57	0.08 (0.05)	0-0.18	0.60
Jun-2020	1.01 (0.47)	0.1-2.02	0.47	0.78 (0.21)	0.39-1.21	0.27	0.85 (0.14)	0.55-1.12	0.17
Jul-2020	0 (0)	0-0		0 (0)	0-0		0.07 (0.03)	0.02-0.12	0.42
Aug-2020	0 (0)	0-0		0.04 (0.03)	0-0.09	0.71	0.02 (0.02)	0-0.05	0.71

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.1 (0.08)	0-0.3	0.79	0.09 (0.05)	0-0.17	0.56	0.05 (0.03)	0-0.1	0.55
Oct-2020	0 (0)	0-0		0.04 (0.03)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.84
Nov-2020	0 (0)	0-0		0 (0)	0-0		0.07 (0.05)	0-0.17	0.61
Dec-2020	0 (0)	0-0		0.04 (0.03)	0-0.13	0.79	0.05 (0.03)	0-0.1	0.55
Jan-2021	0.1 (0.08)	0-0.3	0.82	0.09 (0.05)	0-0.17	0.58	0.05 (0.03)	0-0.1	0.59
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.71

Table 13. Five Estuaries North. Density of Little gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0.21 (0.17)	0-0.42	0.79	0.09 (0.07)	0-0.27	0.78	0.05 (0.04)	0-0.16	0.79
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.1	0.49
Nov-2019	0.11 (0.09)	0-0.32	0.81	0.04 (0.04)	0-0.13	0.78	0.05 (0.03)	0-0.1	0.51
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.77
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.71
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0.04 (0.04)	0-0.13	0.81	0.02 (0.02)	0-0.07	0.82

Table 14. Five Estuaries North. Density of Puffin recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.01)	0-0.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 15. Five Estuaries North. Density of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.01)	0-0.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 16. Five Estuaries North. Density of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.01)	0-0.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 17. Five Estuaries North. Density of Razorbill recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.99 (1.49)	1.16-6.93	0.37	3.5 (0.66)	2.24-4.8	0.19	3.29 (0.32)	2.64-3.89	0.10
Apr-2019	0.31 (0.16)	0-0.63	0.50	0.49 (0.16)	0.18-0.81	0.33	0.49 (0.16)	0.21-0.83	0.32
May-2019	0.21 (0.17)	0-0.63	0.83	0.09 (0.08)	0-0.27	0.84	0.05 (0.04)	0-0.16	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0.21 (0.18)	0-0.63	0.83	0.09 (0.07)	0-0.27	0.82	0.05 (0.04)	0-0.16	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.21 (0.12)	0-0.42	0.57	0.09 (0.05)	0-0.18	0.57	0.26 (0.1)	0.05-0.47	0.40
Nov-2019	1.37 (0.74)	0-2.95	0.54	0.99 (0.31)	0.4-1.57	0.31	0.8 (0.19)	0.47-1.17	0.23
Dec-2019	2.73 (1.2)	0.3-5.06	0.44	3.76 (0.85)	2.2-5.49	0.23	4.14 (0.85)	2.72-6.01	0.20
Jan-2020	0.31 (0.12)	0.1-0.52	0.38	0.98 (0.33)	0.4-1.64	0.34	1.08 (0.23)	0.62-1.51	0.21
Feb-2020	2.41 (1.21)	0.3-4.92	0.50	1.37 (0.51)	0.43-2.45	0.37	1.56 (0.21)	1.14-1.93	0.14
Mar-2020	0.7 (0.4)	0-1.51	0.57	1.59 (0.35)	0.95-2.28	0.22	1.51 (0.23)	1.07-1.94	0.15
Apr-2020	0 (0)	0-0		0.13 (0.11)	0-0.39	0.82	0.2 (0.09)	0.05-0.37	0.43
May-2020	0.1 (0.09)	0-0.31	0.84	0.17 (0.09)	0-0.35	0.51	0.13 (0.05)	0.03-0.23	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	1.51 (0.83)	0-3.23	0.55	1.34 (0.53)	0.34-2.41	0.40	0.97 (0.32)	0.37-1.59	0.33
Nov-2020	0.1 (0.09)	0-0.3	0.85	0.3 (0.21)	0-0.78	0.70	0.35 (0.21)	0.02-0.8	0.60
Dec-2020	2.82 (1.45)	0-5.64	0.51	2.93 (0.61)	1.77-4.05	0.21	2.66 (0.3)	2.06-3.23	0.11
Jan-2021	1.01 (0.38)	0.3-1.82	0.38	0.65 (0.21)	0.26-1.08	0.33	0.62 (0.12)	0.37-0.85	0.19
Feb-2021	0.91 (0.65)	0-2.41	0.72	0.9 (0.27)	0.39-1.42	0.30	0.92 (0.22)	0.52-1.36	0.24

Table 18. Five Estuaries North. Density of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	4.1 (1.53)	1.19-7.12	0.37	3.59 (0.68)	2.3-4.93	0.19	3.39 (0.33)	2.73-4.01	0.10
Apr-2019	0.31 (0.16)	0-0.63	0.50	0.54 (0.18)	0.2-0.88	0.33	0.54 (0.17)	0.23-0.91	0.32
May-2019	0.21 (0.17)	0-0.63	0.83	0.09 (0.08)	0-0.27	0.84	0.05 (0.04)	0-0.16	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0.32 (0.26)	0-0.95	0.83	0.09 (0.07)	0-0.27	0.82	0.05 (0.04)	0-0.16	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.32 (0.18)	0-0.63	0.57	0.09 (0.05)	0-0.18	0.57	0.28 (0.11)	0.06-0.51	0.40
Nov-2019	1.47 (0.8)	0-3.18	0.54	1.08 (0.34)	0.44-1.72	0.31	0.91 (0.21)	0.53-1.32	0.23
Dec-2019	3.03 (1.33)	0.34-5.62	0.44	4.19 (0.94)	2.46-6.12	0.23	4.51 (0.92)	2.96-6.55	0.20
Jan-2020	0.42 (0.16)	0.14-0.69	0.38	1.11 (0.37)	0.45-1.87	0.34	1.26 (0.27)	0.72-1.76	0.21
Feb-2020	2.71 (1.36)	0.34-5.54	0.50	1.5 (0.56)	0.47-2.68	0.37	1.71 (0.23)	1.25-2.12	0.14
Mar-2020	0.81 (0.46)	0-1.73	0.57	1.72 (0.38)	1.02-2.47	0.22	1.61 (0.24)	1.14-2.06	0.15
Apr-2020	0 (0)	0-0		0.13 (0.11)	0-0.39	0.82	0.2 (0.09)	0.05-0.37	0.43
May-2020	0.1 (0.09)	0-0.31	0.84	0.17 (0.09)	0-0.35	0.51	0.18 (0.07)	0.04-0.32	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	1.51 (0.83)	0-3.23	0.55	1.34 (0.53)	0.34-2.41	0.40	0.97 (0.32)	0.37-1.59	0.33
Nov-2020	0.1 (0.09)	0-0.3	0.85	0.34 (0.24)	0-0.89	0.70	0.47 (0.28)	0.03-1.08	0.60
Dec-2020	4.13 (2.12)	0-8.26	0.51	3.75 (0.78)	2.26-5.18	0.21	3.23 (0.37)	2.5-3.92	0.11
Jan-2021	1.01 (0.38)	0.3-1.82	0.38	0.73 (0.24)	0.29-1.22	0.33	0.67 (0.13)	0.4-0.91	0.19
Feb-2021	1.01 (0.72)	0-2.68	0.72	1.03 (0.31)	0.44-1.62	0.30	1.12 (0.27)	0.63-1.66	0.24

Table 19. Five Estuaries North. Density of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	4.94 (1.85)	1.43-8.58	0.37	4.36 (0.82)	2.79-5.97	0.19	4.12 (0.4)	3.31-4.87	0.10
Apr-2019	0.42 (0.21)	0-0.84	0.50	0.67 (0.22)	0.24-1.1	0.33	0.65 (0.2)	0.27-1.09	0.32
May-2019	0.21 (0.17)	0-0.63	0.83	0.09 (0.08)	0-0.27	0.84	0.05 (0.04)	0-0.16	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0.42 (0.35)	0-1.27	0.83	0.09 (0.07)	0-0.27	0.82	0.05 (0.04)	0-0.16	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.42 (0.24)	0-0.84	0.57	0.09 (0.05)	0-0.18	0.57	0.34 (0.14)	0.07-0.61	0.40
Nov-2019	1.79 (0.97)	0-3.86	0.54	1.3 (0.41)	0.53-2.08	0.31	1.09 (0.25)	0.63-1.58	0.23
Dec-2019	3.64 (1.6)	0.4-6.74	0.44	5.06 (1.14)	2.97-7.38	0.23	5.46 (1.12)	3.59-7.93	0.20
Jan-2020	0.52 (0.2)	0.17-0.87	0.38	1.24 (0.42)	0.51-2.09	0.34	1.38 (0.3)	0.79-1.94	0.21
Feb-2020	3.21 (1.61)	0.4-6.56	0.50	1.8 (0.67)	0.56-3.21	0.37	2.03 (0.28)	1.48-2.51	0.14
Mar-2020	1.01 (0.58)	0-2.16	0.57	2.07 (0.46)	1.23-2.96	0.22	1.96 (0.29)	1.38-2.51	0.15
Apr-2020	0 (0)	0-0		0.17 (0.14)	0-0.51	0.82	0.25 (0.11)	0.06-0.46	0.43
May-2020	0.1 (0.09)	0-0.31	0.84	0.22 (0.11)	0-0.44	0.51	0.2 (0.08)	0.04-0.36	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	1.71 (0.94)	0-3.66	0.55	1.46 (0.58)	0.38-2.65	0.40	1.04 (0.35)	0.4-1.71	0.33
Nov-2020	0.1 (0.09)	0-0.3	0.85	0.43 (0.3)	0-1.11	0.70	0.57 (0.34)	0.04-1.31	0.60
Dec-2020	5.04 (2.59)	0-10.07	0.51	4.52 (0.94)	2.73-6.25	0.21	3.9 (0.44)	3.03-4.74	0.11
Jan-2021	1.11 (0.42)	0.33-2	0.38	0.82 (0.27)	0.33-1.37	0.33	0.77 (0.15)	0.46-1.05	0.19
Feb-2021	1.21 (0.87)	0-3.22	0.72	1.25 (0.37)	0.53-1.96	0.30	1.34 (0.32)	0.76-1.99	0.24

Table 20. Five Estuaries North. Density of Red-throated diver recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.81
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0.04 (0.04)	0-0.13	0.78	0.03 (0.02)	0-0.08	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0.04 (0.03)	0-0.09	0.78	0.02 (0.02)	0-0.05	0.76
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0.07 (0.03)	0.02-0.15	0.44
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0.09 (0.06)	0-0.17	0.71	0.05 (0.04)	0-0.1	0.71
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.05	0.71
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0.02 (0.02)	0-0.07	0.84
Jan-2021	0.1 (0.08)	0-0.3	0.82	0.09 (0.04)	0-0.17	0.50	0.05 (0.02)	0-0.1	0.49
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.05 (0.04)	0-0.12	0.72

Table 21. Five Estuaries North. Density of Sandwich tern recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.69
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 22. Five Estuaries South. Density of Arctic skua recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.06	0.76
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.76	0.03 (0.02)	0-0.06	0.77
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 23. Five Estuaries South. Density of Black-headed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.14 (0.08)	0-0.3	0.56
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.11 (0.09)	0-0.34	0.80	0.05 (0.04)	0-0.15	0.81	0.06 (0.03)	0-0.11	0.60
Nov-2019	0.12 (0.09)	0-0.35	0.79	0.1 (0.06)	0-0.2	0.56	0.06 (0.03)	0-0.11	0.56
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0.22 (0.12)	0-0.44	0.56	0.09 (0.05)	0-0.19	0.57	0.13 (0.06)	0.03-0.27	0.46
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0.09 (0.08)	0-0.28	0.80	0.05 (0.04)	0-0.13	0.78
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 24. Five Estuaries South. Density of Common gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0.05 (0.04)	0-0.15	0.85	0.03 (0.02)	0-0.08	0.80
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0.05 (0.04)	0-0.1	0.76	0.03 (0.02)	0-0.05	0.75
Feb-2020	0 (0)	0-0		0 (0)	0-0		0.11 (0.08)	0-0.32	0.79
Mar-2020	0.33 (0.17)	0-0.66	0.52	0.23 (0.09)	0.09-0.42	0.40	0.13 (0.06)	0.03-0.24	0.44
Apr-2020	0 (0)	0-0		0.19 (0.06)	0.05-0.33	0.33	0.24 (0.05)	0.13-0.35	0.23
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.81
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0.11 (0.09)	0-0.33	0.82	0.05 (0.04)	0-0.14	0.81	0.03 (0.02)	0-0.08	0.82

Table 25. Five Estuaries South. Density of Common tern recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0.05 (0.04)	0-0.13	0.79
Jul-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.82	0.03 (0.02)	0-0.08	0.83
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0.11 (0.06)	0-0.21	0.56
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 26. Five Estuaries South. Density of Cormorant recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0.7 (0.55)	0-1.39	0.79	0.3 (0.25)	0-0.89	0.84	0.17 (0.14)	0-0.51	0.84
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 27. Five Estuaries South. Density of Fulmar recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0.79 (0.28)	0.23-1.36	0.36	0.43 (0.15)	0.14-0.72	0.33	0.41 (0.11)	0.19-0.64	0.26
Apr-2019	0.11 (0.09)	0-0.34	0.82	0.1 (0.05)	0-0.2	0.56	0.06 (0.03)	0-0.11	0.55
May-2019	0.34 (0.16)	0.11-0.69	0.47	0.2 (0.09)	0.05-0.39	0.44	0.17 (0.05)	0.08-0.25	0.30
Jun-2019	0.46 (0.28)	0-1.04	0.61	0.49 (0.21)	0.1-0.89	0.43	0.4 (0.16)	0.08-0.71	0.41
Jul-2019	0.11 (0.09)	0-0.23	0.80	0.05 (0.04)	0-0.15	0.84	0.03 (0.02)	0-0.08	0.81
Aug-2019	0.57 (0.44)	0-1.6	0.76	1.02 (0.6)	0.1-2.29	0.59	1.03 (0.41)	0.31-1.87	0.40
Sep-2019	0.12 (0.09)	0-0.23	0.76	0.25 (0.16)	0-0.59	0.65	0.93 (0.34)	0.25-1.64	0.37
Oct-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.75	0.03 (0.02)	0-0.06	0.74
Nov-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.75	0.03 (0.02)	0-0.06	0.77
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.81	0.05 (0.03)	0-0.11	0.54
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0.11 (0.09)	0-0.33	0.79	0.05 (0.04)	0-0.09	0.75	0.13 (0.06)	0.03-0.24	0.42
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0.14 (0.07)	0-0.28	0.47	0.3 (0.15)	0.03-0.59	0.51
Aug-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.82	0.03 (0.02)	0-0.08	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.78
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.78

Table 28. Five Estuaries South. Density of Gannet recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0.23 (0.13)	0-0.45	0.57	0.24 (0.08)	0.1-0.39	0.34	1.27 (0.75)	0.14-2.54	0.59
Apr-2019	0.23 (0.13)	0-0.46	0.58	0.2 (0.08)	0.05-0.34	0.41	0.28 (0.08)	0.11-0.45	0.29
May-2019	0 (0)	0-0		0.05 (0.04)	0-0.15	0.83	0.03 (0.02)	0-0.06	0.78
Jun-2019	2.78 (2.08)	0-7.64	0.75	1.68 (0.98)	0.15-3.6	0.58	1.27 (0.6)	0.31-2.48	0.47
Jul-2019	0.23 (0.13)	0-0.46	0.56	0.19 (0.08)	0.05-0.34	0.40	0.17 (0.05)	0.08-0.28	0.29
Aug-2019	0.11 (0.09)	0-0.34	0.82	0.78 (0.32)	0.24-1.46	0.41	0.95 (0.31)	0.42-1.59	0.33
Sep-2019	0.58 (0.25)	0.12-1.16	0.44	0.3 (0.14)	0.05-0.54	0.46	0.28 (0.08)	0.14-0.45	0.30
Oct-2019	0.11 (0.1)	0-0.34	0.84	0.24 (0.1)	0.1-0.44	0.40	0.25 (0.07)	0.11-0.39	0.27
Nov-2019	4.27 (1.62)	1.39-7.62	0.38	3.05 (0.77)	1.52-4.48	0.25	2.7 (0.36)	2-3.43	0.13
Dec-2019	0 (0)	0-0		0.05 (0.04)	0-0.14	0.78	0.05 (0.03)	0-0.11	0.57
Jan-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.67
Feb-2020	0.11 (0.09)	0-0.33	0.78	0.42 (0.19)	0.09-0.79	0.45	1.14 (0.41)	0.43-1.94	0.35
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0.11 (0.09)	0-0.33	0.83	0.05 (0.04)	0-0.14	0.81	0.03 (0.02)	0-0.08	0.86
May-2020	0.11 (0.08)	0-0.33	0.75	0.05 (0.04)	0-0.09	0.75	0.03 (0.02)	0-0.05	0.79
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0.05 (0.04)	0-0.09	0.77	0.03 (0.02)	0-0.05	0.77

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.44 (0.2)	0.11-0.88	0.46	0.61 (0.22)	0.23-1.08	0.36	0.46 (0.14)	0.21-0.72	0.30
Oct-2020	0.44 (0.27)	0-0.99	0.60	0.61 (0.25)	0.14-1.08	0.40	0.46 (0.16)	0.19-0.81	0.36
Nov-2020	0.33 (0.13)	0.11-0.55	0.40	0.38 (0.11)	0.19-0.56	0.28	0.35 (0.07)	0.21-0.48	0.19
Dec-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.83
Jan-2021	0 (0)	0-0		0 (0)	0-0		0.08 (0.03)	0.03-0.13	0.41
Feb-2021	0.22 (0.17)	0-0.55	0.78	0.14 (0.1)	0-0.33	0.69	0.11 (0.06)	0-0.21	0.56

Table 29. Five Estuaries South. Density of Great black-backed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0.06 (0.04)	0-0.11	0.75
Apr-2019	0 (0)	0-0		0.15 (0.08)	0-0.29	0.55	0.17 (0.06)	0.03-0.31	0.38
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0.05 (0.04)	0-0.15	0.82	0.03 (0.02)	0-0.08	0.83
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0.1 (0.07)	0-0.19	0.67	0.11 (0.04)	0.03-0.2	0.40
Sep-2019	0.35 (0.29)	0-1.04	0.83	0.39 (0.18)	0.1-0.74	0.45	0.85 (0.34)	0.2-1.5	0.40
Oct-2019	0 (0)	0-0		0.1 (0.04)	0-0.15	0.41	0.17 (0.05)	0.08-0.28	0.32
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0.11 (0.09)	0-0.34	0.78	0.1 (0.05)	0-0.19	0.55	0.11 (0.04)	0.05-0.19	0.35
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.69
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0.23 (0.13)	0.05-0.52	0.54	0.13 (0.07)	0.03-0.27	0.52
Oct-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.79	0.11 (0.04)	0.05-0.19	0.33
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0.19 (0.12)	0-0.47	0.63	0.21 (0.08)	0.08-0.38	0.36
Jan-2021	0.11 (0.09)	0-0.33	0.86	0.23 (0.11)	0-0.42	0.46	0.32 (0.14)	0.08-0.62	0.45
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.77

Table 30. Five Estuaries South. Density of Great skua recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0.11 (0.09)	0-0.34	0.82	0.1 (0.06)	0-0.19	0.59	0.11 (0.04)	0.03-0.2	0.34
Sep-2019	0 (0)	0-0		0.05 (0.04)	0-0.15	0.79	0.06 (0.03)	0-0.11	0.52
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.77
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 31. Five Estuaries South. Density of Guillemot recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.06 (1.12)	1.13-5.33	0.37	3.53 (0.66)	2.17-4.83	0.19	4.86 (1.06)	3.01-6.83	0.22
Apr-2019	2.41 (0.83)	0.92-4.25	0.34	1.76 (0.38)	1.03-2.49	0.22	1.96 (0.24)	1.54-2.43	0.12
May-2019	0.11 (0.09)	0-0.34	0.82	0.2 (0.09)	0.05-0.39	0.47	0.17 (0.06)	0.06-0.28	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.79	0.03 (0.02)	0-0.08	0.80
Sep-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.77	0.06 (0.03)	0-0.11	0.52
Oct-2019	0.8 (0.36)	0.23-1.49	0.45	0.59 (0.26)	0.15-1.12	0.44	0.39 (0.15)	0.14-0.7	0.37
Nov-2019	4.51 (1.94)	1.16-8.44	0.43	2.71 (0.87)	1.08-4.43	0.32	2.56 (0.48)	1.74-3.55	0.19
Dec-2019	2.87 (0.99)	1.1-4.97	0.34	2.59 (0.5)	1.55-3.53	0.19	2.21 (0.27)	1.7-2.75	0.12
Jan-2020	2.93 (1.16)	0.79-5.29	0.40	2.21 (0.56)	1.15-3.26	0.25	2.28 (0.29)	1.7-2.88	0.13
Feb-2020	30.9 (8.41)	14.41-47.06	0.27	27.02 (4.31)	18.69-35.48	0.16	22.98 (1.96)	19.04-26.86	0.09
Mar-2020	1.43 (0.68)	0.22-2.86	0.48	0.8 (0.29)	0.28-1.36	0.37	0.75 (0.17)	0.43-1.07	0.22
Apr-2020	1.32 (0.58)	0.33-2.53	0.44	1.36 (0.31)	0.75-1.97	0.23	1.18 (0.19)	0.8-1.53	0.16
May-2020	0.88 (0.48)	0.11-1.88	0.55	0.94 (0.33)	0.33-1.55	0.35	0.84 (0.21)	0.43-1.24	0.25
Jun-2020	0.22 (0.17)	0-0.66	0.78	0.09 (0.07)	0-0.28	0.80	0.11 (0.06)	0-0.21	0.52
Jul-2020	0 (0)	0-0		0.14 (0.06)	0.05-0.28	0.45	0.11 (0.04)	0.03-0.19	0.38
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.22 (0.13)	0-0.44	0.58	0.19 (0.08)	0.05-0.37	0.44	0.16 (0.06)	0.05-0.29	0.37
Oct-2020	0 (0)	0-0		0.09 (0.08)	0-0.28	0.82	0.21 (0.1)	0.03-0.43	0.48
Nov-2020	0.22 (0.12)	0-0.44	0.56	0.33 (0.1)	0.14-0.52	0.30	0.32 (0.08)	0.16-0.48	0.24
Dec-2020	0.77 (0.32)	0.22-1.43	0.42	1.36 (0.26)	0.84-1.88	0.19	1.42 (0.18)	1.07-1.8	0.13
Jan-2021	1.76 (0.79)	0.33-3.3	0.45	1.64 (0.41)	0.89-2.44	0.25	1.72 (0.27)	1.18-2.23	0.16
Feb-2021	1.54 (0.73)	0.22-2.97	0.47	1.13 (0.33)	0.47-1.78	0.30	0.91 (0.19)	0.54-1.29	0.21

Table 32. Five Estuaries South. Density of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.29 (1.21)	1.22-5.73	0.37	3.72 (0.7)	2.29-5.1	0.19	5.06 (1.11)	3.13-7.1	0.22
Apr-2019	2.41 (0.83)	0.92-4.25	0.34	1.81 (0.39)	1.06-2.56	0.22	1.99 (0.24)	1.56-2.47	0.12
May-2019	0.11 (0.09)	0-0.34	0.82	0.2 (0.09)	0.05-0.39	0.47	0.17 (0.06)	0.06-0.28	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0.1 (0.08)	0-0.19	0.79	0.06 (0.04)	0-0.17	0.80
Sep-2019	0 (0)	0-0		0.1 (0.08)	0-0.2	0.77	0.11 (0.06)	0-0.23	0.52
Oct-2019	0.92 (0.41)	0.26-1.7	0.45	0.59 (0.26)	0.15-1.12	0.44	0.45 (0.17)	0.16-0.8	0.37
Nov-2019	5.08 (2.19)	1.3-9.52	0.43	3.1 (0.99)	1.24-5.08	0.32	2.87 (0.54)	1.96-3.98	0.19
Dec-2019	3.09 (1.06)	1.19-5.35	0.34	2.92 (0.56)	1.75-3.98	0.19	2.48 (0.3)	1.9-3.08	0.12
Jan-2020	3.38 (1.34)	0.91-6.11	0.40	2.4 (0.61)	1.25-3.55	0.25	2.47 (0.32)	1.84-3.12	0.13
Feb-2020	33.52 (9.12)	15.63-51.05	0.27	29.44 (4.69)	20.37-38.66	0.16	25.16 (2.15)	20.85-29.41	0.09
Mar-2020	1.54 (0.73)	0.23-3.07	0.48	0.8 (0.29)	0.28-1.36	0.37	0.8 (0.18)	0.46-1.15	0.22
Apr-2020	1.32 (0.58)	0.33-2.53	0.44	1.36 (0.31)	0.75-1.97	0.23	1.21 (0.2)	0.82-1.56	0.16
May-2020	1 (0.54)	0.12-2.12	0.55	1.08 (0.38)	0.38-1.79	0.35	0.92 (0.23)	0.47-1.36	0.25
Jun-2020	0.22 (0.17)	0-0.66	0.78	0.19 (0.15)	0-0.56	0.80	0.32 (0.17)	0-0.64	0.52
Jul-2020	0 (0)	0-0		0.14 (0.06)	0.05-0.28	0.45	0.11 (0.04)	0.03-0.19	0.38
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0.22 (0.13)	0-0.44	0.58	0.37 (0.17)	0.09-0.75	0.44	0.32 (0.12)	0.11-0.59	0.37
Oct-2020	0 (0)	0-0		0.09 (0.08)	0-0.28	0.82	0.21 (0.1)	0.03-0.43	0.48
Nov-2020	0.22 (0.12)	0-0.44	0.56	0.33 (0.1)	0.14-0.52	0.30	0.35 (0.08)	0.17-0.52	0.24
Dec-2020	0.99 (0.41)	0.28-1.84	0.42	1.64 (0.31)	1.02-2.26	0.19	1.82 (0.23)	1.38-2.31	0.13
Jan-2021	2.09 (0.94)	0.39-3.92	0.45	1.92 (0.47)	1.04-2.86	0.25	1.9 (0.3)	1.31-2.47	0.16
Feb-2021	2.09 (0.99)	0.3-4.03	0.47	1.45 (0.43)	0.61-2.3	0.30	1.15 (0.24)	0.68-1.63	0.21

Table 33. Five Estuaries South. Density of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	4.31 (1.58)	1.59-7.5	0.37	4.88 (0.92)	3.01-6.69	0.19	6.61 (1.44)	4.09-9.27	0.22
Apr-2019	3.21 (1.11)	1.22-5.66	0.34	2.4 (0.52)	1.4-3.39	0.22	2.6 (0.32)	2.04-3.23	0.12
May-2019	0.11 (0.09)	0-0.34	0.82	0.24 (0.12)	0.06-0.49	0.47	0.22 (0.08)	0.07-0.37	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0.15 (0.12)	0-0.29	0.79	0.08 (0.07)	0-0.25	0.80
Sep-2019	0 (0)	0-0		0.15 (0.11)	0-0.3	0.77	0.14 (0.07)	0-0.28	0.52
Oct-2019	1.15 (0.52)	0.33-2.13	0.45	0.78 (0.34)	0.2-1.5	0.44	0.59 (0.22)	0.21-1.05	0.37
Nov-2019	6.7 (2.88)	1.72-12.55	0.43	4.04 (1.29)	1.61-6.61	0.32	3.74 (0.7)	2.55-5.18	0.19
Dec-2019	3.87 (1.33)	1.49-6.69	0.34	3.72 (0.72)	2.23-5.07	0.19	3.2 (0.39)	2.46-3.98	0.12
Jan-2020	4.39 (1.74)	1.18-7.94	0.40	3.12 (0.79)	1.63-4.61	0.25	3.15 (0.41)	2.36-3.99	0.13
Feb-2020	43.56 (11.85)	20.32-66.35	0.27	38.41 (6.12)	26.58-50.45	0.16	32.85 (2.81)	27.22-38.4	0.09
Mar-2020	1.98 (0.94)	0.3-3.95	0.48	1.03 (0.38)	0.36-1.76	0.37	1.04 (0.23)	0.6-1.49	0.22
Apr-2020	1.65 (0.73)	0.41-3.16	0.44	1.73 (0.4)	0.96-2.51	0.23	1.55 (0.25)	1.06-2.01	0.16
May-2020	1.33 (0.72)	0.16-2.82	0.55	1.41 (0.49)	0.49-2.33	0.35	1.21 (0.3)	0.63-1.8	0.25
Jun-2020	0.33 (0.26)	0-0.99	0.78	0.23 (0.19)	0-0.7	0.80	0.43 (0.22)	0-0.86	0.52
Jul-2020	0 (0)	0-0		0.19 (0.08)	0.06-0.38	0.45	0.13 (0.05)	0.03-0.23	0.38

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0.33 (0.19)	0-0.66	0.58	0.47 (0.21)	0.12-0.94	0.44	0.43 (0.16)	0.14-0.79	0.37
Oct-2020	0 (0)	0-0		0.09 (0.08)	0-0.28	0.82	0.27 (0.13)	0.03-0.54	0.48
Nov-2020	0.33 (0.18)	0-0.66	0.56	0.42 (0.13)	0.18-0.66	0.30	0.46 (0.11)	0.23-0.69	0.24
Dec-2020	1.21 (0.5)	0.35-2.25	0.42	2.11 (0.4)	1.31-2.91	0.19	2.36 (0.3)	1.78-2.98	0.13
Jan-2021	2.75 (1.24)	0.52-5.16	0.45	2.53 (0.63)	1.37-3.76	0.25	2.47 (0.39)	1.7-3.2	0.16
Feb-2021	2.64 (1.25)	0.38-5.1	0.47	1.88 (0.56)	0.78-2.97	0.30	1.5 (0.31)	0.88-2.12	0.21

Table 34. Five Estuaries South. Density of Herring gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0.64 (0.48)	0-1.78	0.74	0.37 (0.26)	0-0.99	0.71
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0.23 (0.19)	0-0.69	0.82	0.19 (0.09)	0.05-0.39	0.48	0.14 (0.05)	0.06-0.25	0.39
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.11 (0.09)	0-0.34	0.81	0.05 (0.04)	0-0.15	0.79	0.03 (0.02)	0-0.06	0.79
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0.05 (0.04)	0-0.1	0.76	0.05 (0.03)	0-0.11	0.55
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.05 (0.04)	0-0.11	0.70
May-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0)	0.03-0.03	0.00
Jun-2020	0 (0)	0-0		0.05 (0.03)	0-0.09	0.66	0.03 (0.02)	0-0.05	0.68
Jul-2020	0 (0)	0-0		0.09 (0.05)	0-0.19	0.58	0.08 (0.03)	0.03-0.13	0.38
Aug-2020	0 (0)	0-0		0.05 (0.03)	0-0.09	0.75	0.03 (0.02)	0-0.08	0.78



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0.19 (0.1)	0-0.37	0.55	0.13 (0.07)	0-0.27	0.55
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0)	0.03-0.03	0.00
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0.05 (0.04)	0-0.09	0.77	0.08 (0.05)	0-0.19	0.61
Feb-2021	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.79

Table 35. Five Estuaries South. Density of Kittiwake recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	2.5 (0.88)	0.91-4.31	0.35	3.14 (0.69)	1.79-4.4	0.22	3.87 (1)	2.02-5.72	0.26
Apr-2019	0.34 (0.16)	0-0.69	0.47	0.64 (0.18)	0.29-0.98	0.29	0.45 (0.11)	0.22-0.67	0.24
May-2019	0.11 (0.09)	0-0.34	0.82	0.64 (0.24)	0.19-1.08	0.38	0.76 (0.22)	0.34-1.2	0.30
Jun-2019	0.23 (0.13)	0-0.46	0.56	0.35 (0.12)	0.1-0.59	0.34	0.28 (0.08)	0.14-0.42	0.27
Jul-2019	0 (0)	0-0		0.05 (0.04)	0-0.15	0.81	0.03 (0.02)	0-0.06	0.78
Aug-2019	0.11 (0.09)	0-0.34	0.82	0.19 (0.07)	0.05-0.34	0.38	0.31 (0.09)	0.14-0.47	0.29
Sep-2019	0 (0)	0-0		0.05 (0.04)	0-0.1	0.76	0.08 (0.04)	0.03-0.17	0.43
Oct-2019	0.11 (0.09)	0-0.34	0.82	0.05 (0.04)	0-0.15	0.82	0.11 (0.05)	0.03-0.2	0.44
Nov-2019	0.92 (0.33)	0.35-1.62	0.36	1.18 (0.21)	0.79-1.57	0.17	1.72 (0.38)	1.04-2.53	0.22
Dec-2019	1.66 (0.65)	0.55-2.98	0.39	1.51 (0.42)	0.75-2.31	0.28	1.48 (0.25)	1.02-1.99	0.17
Jan-2020	0.34 (0.16)	0.11-0.68	0.46	0.53 (0.15)	0.24-0.82	0.29	0.63 (0.1)	0.41-0.82	0.16
Feb-2020	0.87 (0.32)	0.33-1.53	0.36	0.74 (0.16)	0.42-1.07	0.22	0.93 (0.16)	0.64-1.28	0.18
Mar-2020	0.88 (0.4)	0.11-1.65	0.45	0.51 (0.19)	0.19-0.89	0.36	0.37 (0.12)	0.16-0.62	0.32
Apr-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.78	0.08 (0.03)	0.03-0.13	0.40
May-2020	0.44 (0.18)	0.11-0.77	0.40	0.38 (0.11)	0.14-0.61	0.30	0.43 (0.1)	0.24-0.62	0.22
Jun-2020	0.11 (0.09)	0-0.33	0.81	0.05 (0.04)	0-0.14	0.84	0.05 (0.03)	0-0.11	0.58
Jul-2020	0.11 (0.09)	0-0.33	0.82	0.14 (0.07)	0-0.28	0.49	0.24 (0.1)	0.05-0.46	0.42
Aug-2020	0 (0)	0-0		0.14 (0.08)	0-0.28	0.57	0.16 (0.06)	0.05-0.27	0.36

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.11	0.55
Oct-2020	0 (0)	0-0		0.33 (0.28)	0-0.99	0.84	0.21 (0.16)	0-0.59	0.72
Nov-2020	0.55 (0.29)	0-1.1	0.52	0.33 (0.13)	0.09-0.61	0.40	0.4 (0.1)	0.21-0.59	0.24
Dec-2020	0.22 (0.12)	0-0.44	0.56	0.42 (0.19)	0.09-0.8	0.44	0.4 (0.12)	0.21-0.67	0.30
Jan-2021	0.11 (0.09)	0-0.33	0.83	0.89 (0.26)	0.42-1.41	0.29	0.91 (0.18)	0.59-1.29	0.20
Feb-2021	0.55 (0.23)	0.11-0.99	0.42	0.28 (0.11)	0.09-0.52	0.38	0.27 (0.06)	0.16-0.4	0.24

Table 36. Five Estuaries South. Density of Lesser black-backed gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0.11 (0.09)	0-0.34	0.82	1.08 (0.38)	0.34-1.86	0.36	0.78 (0.19)	0.45-1.17	0.25
May-2019	0.11 (0.09)	0-0.34	0.82	0.1 (0.05)	0-0.2	0.54	0.06 (0.03)	0-0.11	0.54
Jun-2019	1.16 (0.84)	0-3.13	0.72	10.95 (8.42)	0.1-30.83	0.77	6.52 (4.76)	0.34-17.69	0.73
Jul-2019	0 (0)	0-0		0.15 (0.07)	0-0.29	0.47	0.11 (0.05)	0.03-0.19	0.43
Aug-2019	3.55 (2.04)	0-8.12	0.57	3.56 (1.21)	1.32-6	0.34	2.48 (0.66)	1.37-3.85	0.27
Sep-2019	0.35 (0.21)	0-0.81	0.59	0.39 (0.15)	0.1-0.69	0.37	0.48 (0.14)	0.2-0.73	0.28
Oct-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.06	0.75
Nov-2019	0 (0)	0-0		0.1 (0.08)	0-0.2	0.77	0.06 (0.04)	0-0.11	0.74
Dec-2019	0.11 (0.09)	0-0.33	0.86	0.09 (0.06)	0-0.19	0.60	0.05 (0.03)	0-0.11	0.58
Jan-2020	0 (0)	0-0		0.1 (0.08)	0-0.29	0.85	0.05 (0.05)	0-0.16	0.83
Feb-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.80
Mar-2020	0.11 (0.09)	0-0.33	0.79	0.05 (0.04)	0-0.09	0.78	0.03 (0.02)	0-0.05	0.78
Apr-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.81	0.29 (0.18)	0.03-0.59	0.62
May-2020	0.11 (0.09)	0-0.33	0.82	0.09 (0.05)	0-0.19	0.56	0.08 (0.03)	0.03-0.13	0.42
Jun-2020	0.11 (0.09)	0-0.33	0.81	0.52 (0.12)	0.28-0.75	0.24	3.05 (2.16)	0.27-8.2	0.71
Jul-2020	0 (0)	0-0		0.33 (0.16)	0.09-0.7	0.50	0.4 (0.13)	0.16-0.64	0.33
Aug-2020	0.11 (0.09)	0-0.33	0.82	0.09 (0.06)	0-0.19	0.60	0.08 (0.04)	0.03-0.16	0.46

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0.75 (0.48)	0.09-1.5	0.64	1.1 (0.43)	0.29-1.98	0.39
Oct-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.83
Nov-2020	0.11 (0.09)	0-0.33	0.80	0.05 (0.04)	0-0.14	0.80	0.05 (0.03)	0-0.11	0.60
Dec-2020	0.11 (0.09)	0-0.33	0.84	0.05 (0.04)	0-0.14	0.84	0.05 (0.03)	0-0.11	0.58
Jan-2021	0 (0)	0-0		0.05 (0.04)	0-0.14	0.85	0.13 (0.05)	0.05-0.24	0.36
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 37. Five Estuaries South. Density of Little gull recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0.05 (0.03)	0-0.1	0.64	0.06 (0.03)	0-0.11	0.45
Nov-2019	0 (0)	0-0		0.1 (0.06)	0-0.2	0.56	0.06 (0.03)	0-0.11	0.57
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.05	0.68
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 38. Five Estuaries South. Density of Puffin recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 39. Five Estuaries South. Density of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 40. Five Estuaries South. Density of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 41. Five Estuaries South. Density of Razorbill recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	2.95 (1.05)	1.02-4.99	0.36	2.03 (0.48)	1.11-2.95	0.24	3.04 (0.98)	1.38-4.78	0.32
Apr-2019	0.23 (0.18)	0-0.69	0.79	0.24 (0.12)	0-0.49	0.48	0.2 (0.08)	0.06-0.36	0.41
May-2019	0.23 (0.19)	0-0.69	0.83	0.2 (0.08)	0-0.29	0.43	0.17 (0.07)	0.06-0.28	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		1.03 (0.48)	0.15-2.05	0.47	1.01 (0.31)	0.45-1.62	0.31
Nov-2019	1.62 (0.85)	0-3.23	0.53	2.21 (0.85)	0.79-3.84	0.38	1.52 (0.5)	0.65-2.51	0.33
Dec-2019	1.33 (0.55)	0.33-2.32	0.41	1.84 (0.5)	0.94-2.87	0.27	2.4 (0.36)	1.72-3.12	0.15
Jan-2020	0.34 (0.21)	0-0.79	0.62	0.96 (0.35)	0.29-1.63	0.36	0.8 (0.2)	0.41-1.18	0.26
Feb-2020	3.49 (1.48)	0.98-6.66	0.42	3.21 (0.69)	2-4.56	0.21	3.86 (0.67)	2.61-5.13	0.17
Mar-2020	1.32 (0.65)	0.22-2.64	0.49	0.84 (0.36)	0.23-1.59	0.43	0.83 (0.19)	0.48-1.2	0.22
Apr-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.81	0.08 (0.05)	0-0.16	0.57
May-2020	0.22 (0.18)	0-0.66	0.82	0.09 (0.08)	0-0.28	0.83	0.08 (0.05)	0-0.19	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0.44 (0.27)	0-0.99	0.62	0.8 (0.35)	0.19-1.55	0.44	0.59 (0.2)	0.24-1.02	0.34
Nov-2020	1.32 (0.79)	0.22-3.09	0.60	0.85 (0.37)	0.19-1.6	0.43	0.81 (0.21)	0.4-1.21	0.26
Dec-2020	0.33 (0.21)	0-0.77	0.63	0.89 (0.29)	0.38-1.5	0.33	1.29 (0.32)	0.67-1.96	0.25
Jan-2021	0.33 (0.28)	0-0.99	0.83	0.7 (0.23)	0.28-1.13	0.32	0.97 (0.22)	0.54-1.39	0.23
Feb-2021	0.99 (0.53)	0.11-2.09	0.54	0.75 (0.24)	0.28-1.22	0.32	0.75 (0.15)	0.48-1.05	0.20

Table 42. Five Estuaries South. Density of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.06 (1.09)	1.06-5.18	0.36	2.08 (0.49)	1.14-3.02	0.24	3.15 (1.02)	1.43-4.96	0.32
Apr-2019	0.23 (0.18)	0-0.69	0.79	0.24 (0.12)	0-0.49	0.48	0.2 (0.08)	0.06-0.36	0.41
May-2019	0.23 (0.19)	0-0.69	0.83	0.2 (0.08)	0-0.29	0.43	0.17 (0.07)	0.06-0.28	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		1.07 (0.51)	0.15-2.15	0.47	1.14 (0.35)	0.51-1.84	0.31
Nov-2019	1.85 (0.98)	0-3.7	0.53	2.51 (0.96)	0.89-4.35	0.38	1.69 (0.55)	0.72-2.78	0.33
Dec-2019	1.44 (0.59)	0.36-2.51	0.41	2.07 (0.56)	1.06-3.24	0.27	2.69 (0.41)	1.94-3.51	0.15
Jan-2020	0.34 (0.21)	0-0.79	0.62	1.06 (0.38)	0.32-1.79	0.36	0.85 (0.22)	0.44-1.26	0.26
Feb-2020	3.82 (1.62)	1.07-7.29	0.42	3.49 (0.75)	2.17-4.95	0.21	4.23 (0.73)	2.86-5.63	0.17
Mar-2020	1.32 (0.65)	0.22-2.64	0.49	0.89 (0.38)	0.25-1.68	0.43	0.91 (0.2)	0.53-1.32	0.22
Apr-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.81	0.08 (0.05)	0-0.16	0.57
May-2020	0.22 (0.18)	0-0.66	0.82	0.09 (0.08)	0-0.28	0.83	0.08 (0.05)	0-0.19	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.80



Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0.44 (0.27)	0-0.99	0.62	0.8 (0.35)	0.19-1.55	0.44	0.59 (0.2)	0.24-1.02	0.34
Nov-2020	1.43 (0.86)	0.24-3.35	0.60	0.89 (0.39)	0.2-1.69	0.43	0.91 (0.24)	0.46-1.37	0.26
Dec-2020	0.33 (0.21)	0-0.77	0.63	1.13 (0.37)	0.47-1.9	0.33	1.64 (0.41)	0.85-2.49	0.25
Jan-2021	0.33 (0.28)	0-0.99	0.83	0.8 (0.26)	0.32-1.28	0.32	1.05 (0.24)	0.58-1.51	0.23
Feb-2021	1.32 (0.71)	0.15-2.79	0.54	0.94 (0.3)	0.35-1.52	0.32	0.94 (0.19)	0.6-1.31	0.20

Table 43. Five Estuaries South. Density of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	3.63 (1.29)	1.26-6.14	0.36	2.46 (0.59)	1.35-3.58	0.24	3.79 (1.22)	1.72-5.96	0.32
Apr-2019	0.23 (0.18)	0-0.69	0.79	0.29 (0.14)	0-0.59	0.48	0.22 (0.09)	0.06-0.42	0.41
May-2019	0.23 (0.19)	0-0.69	0.83	0.24 (0.11)	0-0.37	0.43	0.2 (0.08)	0.07-0.33	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		1.32 (0.62)	0.19-2.64	0.47	1.4 (0.43)	0.62-2.25	0.31
Nov-2019	2.19 (1.16)	0-4.39	0.53	3.05 (1.17)	1.08-5.29	0.38	2.05 (0.67)	0.88-3.39	0.33
Dec-2019	1.77 (0.73)	0.44-3.09	0.41	2.49 (0.67)	1.28-3.9	0.27	3.26 (0.49)	2.34-4.25	0.15
Jan-2020	0.45 (0.28)	0-1.05	0.62	1.25 (0.45)	0.37-2.12	0.36	1.02 (0.26)	0.53-1.51	0.26
Feb-2020	4.48 (1.89)	1.26-8.54	0.42	4.19 (0.9)	2.61-5.94	0.21	5.03 (0.87)	3.4-6.69	0.17
Mar-2020	1.65 (0.81)	0.27-3.3	0.49	1.08 (0.46)	0.3-2.03	0.43	1.1 (0.25)	0.64-1.59	0.22
Apr-2020	0 (0)	0-0		0.05 (0.04)	0-0.14	0.81	0.08 (0.05)	0-0.16	0.57
May-2020	0.22 (0.18)	0-0.66	0.82	0.09 (0.08)	0-0.28	0.83	0.11 (0.06)	0-0.25	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.80
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0.55 (0.34)	0-1.24	0.62	0.94 (0.42)	0.22-1.82	0.44	0.7 (0.24)	0.29-1.21	0.34
Nov-2020	1.76 (1.06)	0.29-4.12	0.60	1.08 (0.47)	0.24-2.04	0.43	1.1 (0.29)	0.55-1.65	0.26
Dec-2020	0.44 (0.28)	0-1.03	0.63	1.36 (0.44)	0.57-2.29	0.33	1.99 (0.5)	1.03-3.02	0.25
Jan-2021	0.33 (0.28)	0-0.99	0.83	0.94 (0.3)	0.38-1.5	0.32	1.26 (0.28)	0.7-1.82	0.23
Feb-2021	1.43 (0.77)	0.16-3.02	0.54	1.08 (0.35)	0.4-1.75	0.32	1.1 (0.22)	0.71-1.53	0.20

Table 44. Five Estuaries South. Density of Red-throated diver recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0.05 (0.04)	0-0.14	0.80	0.03 (0.02)	0-0.08	0.83
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0.09 (0.05)	0-0.19	0.58	0.05 (0.03)	0-0.11	0.58
Mar-2020	0 (0)	0-0		0 (0)	0-0		0.03 (0.02)	0-0.08	0.78
Apr-2020	0 (0)	0-0		0 (0)	0-0		0.05 (0.03)	0-0.11	0.58
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0.09 (0.08)	0-0.28	0.83	0.05 (0.04)	0-0.16	0.82
Jan-2021	0 (0)	0-0		0 (0)	0-0		0.08 (0.03)	0.03-0.13	0.36
Feb-2021	0.11 (0.09)	0-0.33	0.82	0.09 (0.04)	0-0.14	0.42	0.05 (0.02)	0-0.08	0.44

Table 45. Five Estuaries South. Density of Sandwich tern recorded on each survey in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0.11 (0.09)	0-0.34	0.82	0.05 (0.04)	0-0.15	0.86	0.03 (0.02)	0-0.08	0.82
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



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